

Claims

1. A method for recovering boot up data in a computer system, comprising:
storing boot up data in a first container that is accessible by an operating system;
copying the boot up data from the first container to a second container that is
5 inaccessible by the operating system; and

if boot up using the boot up data from the first container fails,

copying the boot up data from the second container to the first container,

booting up the computer system using the boot up data copied into the first
container from the second container.
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2. A method for recovering boot up data as recited in claim 1, wherein the
second container is an operating system secure sector.
3. A method for recovering boot up data as recited in claim 1, wherein the
15 second container is at least a portion of at least one disk drive.
4. A method for recovering boot up data as recited in claim 1, wherein the
boot data includes at least a master boot record and system files.
- 20 5. A method for recovering boot up data as recited in claim 1, wherein the
first container is accessible through firmware on a host adapter.
6. A method for recovering boot up data as recited in claim 1, wherein the
first container is at least a portion of at least one storage device.

7. A method for recovering boot up data as recited in claim 1, wherein the first container is a logical storage unit.

5 8. A method for recovering boot up data as recited in claim 1, wherein the second container is a logical storage unit.

9. A method for recovering boot up data as recited in claim 1, wherein the copying is done by a firmware on a host adapter.

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10. A method for recovering boot up data, comprising:

generating a first logical storage unit, the first logical storage unit being configured to be accessible by an operating system;

generating a second logical storage unit, the second logical storage unit being
15 configured to be inaccessible by the operating system;

storing boot up data in the first logical storage unit; and

copying the boot up data from the first logical storage unit to the second logical storage unit.

20 11. A method for recovering boot up data as recited in claim 10, further comprising:

setting a recovery bit in a nonvolatile memory of a host adapter to initiate boot recovery;

when the recovery bit is set,

copying the boot up data from the second logical storage unit to boot up data locations in the first logical storage unit;

booting up the computer system using the boot up data that was copied into the first logical storage unit from the second logical storage unit,

5 unsetting the recovery bit after the computer system has been booted up.

12. A method for recovering boot up data as recited in claim 10, wherein setting the recovery bit includes receiving input to start recovery of the boot up data.

10 13. A method for recovering boot up data as recited in claim 10, wherein the finding the boot up data includes determining the location of the boot up data as stored in a firmware within a host adapter.

14. A method for recovering boot up data as recited in claim 10, wherein the
15 copying of the boot up data from the first container to the second container is managed by firmware being run in a host adapter.

15. A method for recovering boot up data comprising:
 generating a first container in a storage system, the first container being
20 inaccessible to the operating system,
 generating a second container in the storage system,
 copying boot up data from the second container to the first container; and
 when input requesting boot recovery is received,
 setting a recovery bit,

copying boot up data from the first container to a master boot record location and a system file location within a second container, the first container being inaccessible to an operating system,

booting up using the copied boot up data in the first container, and

5 unsetting the recovery bit.

16. A method for recovering boot up data as recited in claim 15, wherein the first container is an operating system secure sector.

10 17. A method for recovering boot up data as recited in claim 15, wherein the second container is at least a portion of at least one disk drive.

18. A method for recovering boot up data as recited in claim 15, wherein the boot data includes at least a master boot record and system files.

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19. A method for recovering boot up data as recited in claim 15, wherein the first container is accessible through firmware on a host adapter.

20. A method for recovering boot up data as recited in claim 15, wherein the
20 first container is at least a portion of at least one disk drive.

21. A method for recovering boot up data as recited in claim 15, wherein the first container is at least a portion of at least one disk.

22. A method for recovering boot up data as recited in claim 15, wherein the storage system includes at least one disk drive.